

30-015-39118

OCCIDENTAL PERMIAN LTD.

Hackberry

Eddy County, NM

Smokey Bits State Com #3H

VH - Job #32K12111229

Survey: Gyro

SDI Standard Survey Report

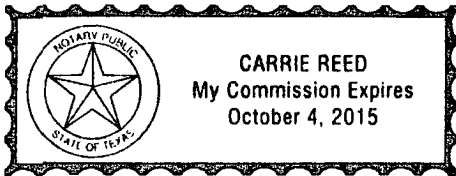
This survey is correct to the best of my knowledge and is supported by actual field data.

K. L. Hart

Notarized this date 31st of December, 2011.

Carrie Reed

Notary Signature
County of Midland
State of Texas



Scientific Drilling
Directional Drilling Operations

Scientific Drilling International, Inc.
SDI Standard Survey Report



Company:	OCCIDENTAL PERMIAN LTD.	Local Co-ordinate Reference:	Well: Smokey Bits State Com #3H
Project:	Hackberry	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Smokey Bits State Com #3H	North Reference:	Grid
Wellbore:	VH - Job #32K12111229	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K12111229	Database:	EDM-Regulatory

Project:	Hackberry		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site		Eddy County, NM			
Site Position:		Northing:	607,384.55 usft	Latitude:	32° 40' 10.276 N
From:	Lat/Long	Easting:	581,473.87 usft	Longitude:	104° 4' 6.846 W
Position Uncertainty:	0 0 usft	Slot Radius:	13-3/16"	Grid Convergence:	0 14 °

Well	Smokey Bits State Com #3H, Directional (Weatherford)					
Well Position	+N/-S	0 0 usft	Northing:	619,093.56 usft	Latitude:	32° 42' 4.844 N
	+E/-W	0 0 usft	Easting:	623,304.00 usft	Longitude:	103° 55' 56.971 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	0 0 usft

Wellbore:	VH - Job #32K12111229
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/18/2011	7.73	60.55	48,839

Design:	VH - Job #32K12111229
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Audit Notes:				
Version:	1 0	Phase:	ACTUAL	Tie On Depth: 0 0

Vertical Section	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	83.36

Survey Program		Date	1/22/2012	
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	400.0	Gyro (VH - Job #32K12111229)	Keeper	Keeper Surface Readout

Survey	Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.0
	100.0	0.22	62.15	100.0	0.1	0.2	62.15	0.2
	200.0	0.48	71.53	200.0	0.3	0.7	67.04	0.8
	300.0	1.00	93.92	300.0	0.4	2.0	79.13	2.0
	400.0	2.40	100.18	399.9	0.0	4.9	90.52	4.9



Project: Hackberry
Eddy County, NM
Well: Smokey Bits State Com #3H
Wellbore: VH - Job #32K12111229
Design: VH - Job #32K12111229

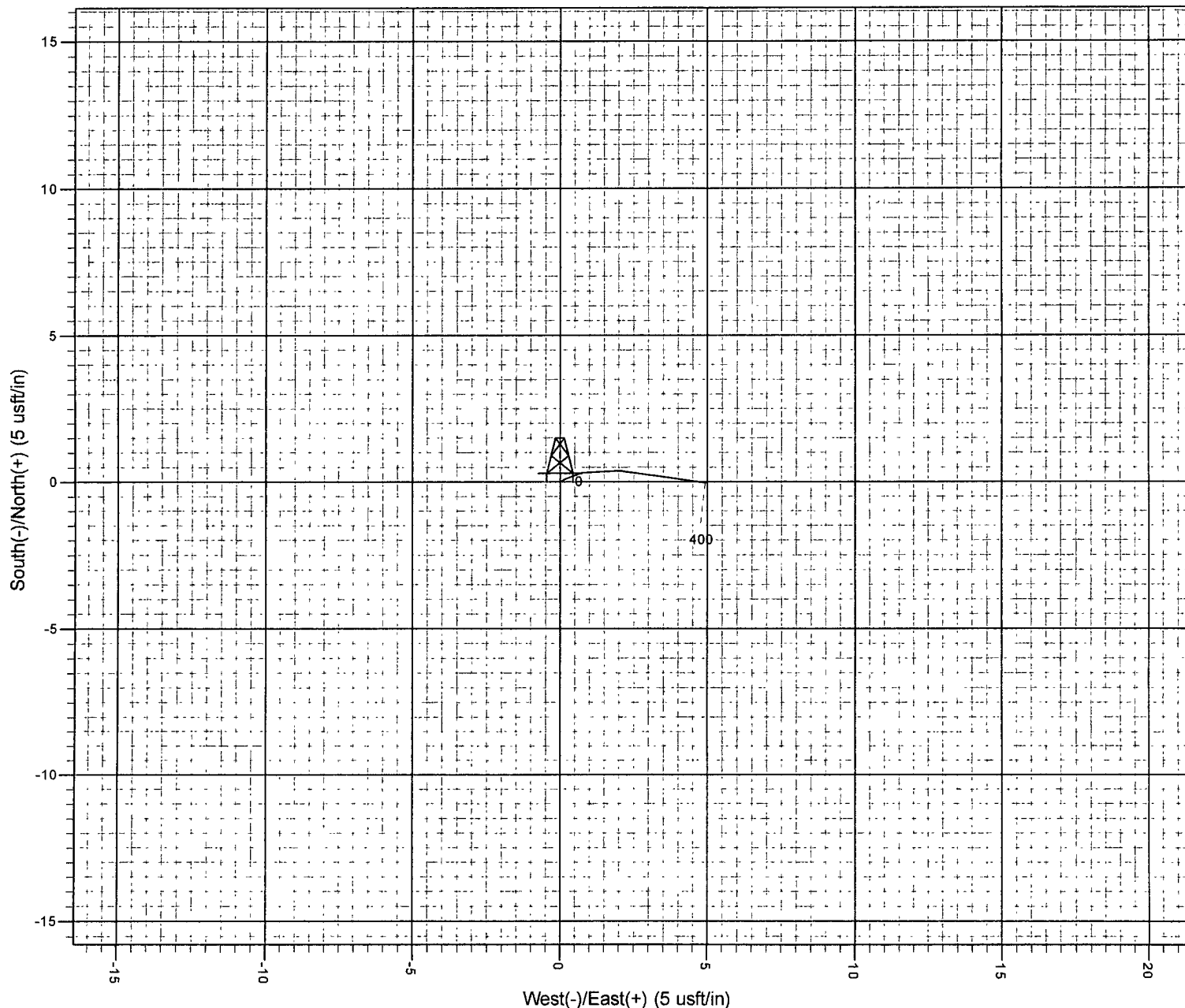


Azimuths to Grd North
True North -0.22°
Magnetic North. 7.51°

Magnetic Field
Strength 48838.9snT
Dip Angle° 60.55°
Date 12/18/2011
Model IGRF2010

WELL DETAILS. Smokey Bits State Com #3H
WELL @ 0 0usft (Original Well Elev)

Ground Level: 0 0
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.0 0.0 619093.56 623304.00 32° 42' 4.844 N 103° 55' 56 971 W



PROJECT DETAILS: Hackberry
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum. Mean Sea Level

SITE DETAILS: Eddy County, NM
Site Centre Latitude: 32° 40' 10.276 N
Longitude: 104° 4' 6.846 W
Positional Uncertainty: 0.0
Convergence: 0.14
Local North: Grid



Weatherford

Evaluation, Drilling & Intervention
10000 West County Rd. 116
P.O. Box 61028
Midland, TX USA 79711
Tel. (432) 561-8892 Fax (432) 561-8895

Occidental Permian Ltd.
5 Greenway Plaza Suite 110
Houston Tx 77046

Date: January 24, 2012

Attention: Luis Tarazona

Re: Occidental Permian Ltd
Well: Smokey Bits State Com 3H
Eddy County, New Mexico

Enclosed, please find the original survey performed on the referenced well by Precision Energy Services, Inc. (P-5 No. 676004), a Weatherford company. Other information required by your office is as follows:

<u>Name & Title Of Surveyor</u>	<u>Well Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Donny Meister MWD Supervisor	3H	542.00' MD 12841.00' MD	12/18/2011 1/23/2012	Measurement While Drilling

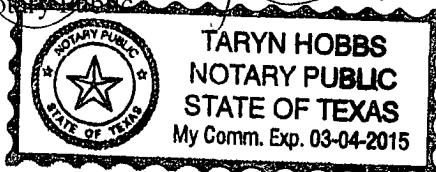
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.


Jesse Aguilar
MWD Coordinator

On this, the 24 day of January, 2012, before me a notary public, the undersigned officer, personally appeared Jesse Aguilar, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same for the purposes therein contained.

In witness hereof, I hereunto set my hand and official seal.

Notary Public





Weatherford International Ltd.

WFT Survey Report



Weatherford

Company: Occidental Permian Ltd. Date: 1/23/2012 Time: 07:14:36 Page: 1
 Field: Eddy Co, NM (Nad 27) Co-ordinate(NE) Reference: Well: 3H, Grid North
 Site: Smokey Bits State Com 3H Vertical (TVD) Reference: SITE 3546.0
 Well: 3H Section (VS) Reference: Well (0.00N,0.00E,83.36Azi)
 Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: Wft Svy Start Date: 12/21/2011

Company: Weatherford International Ltd Engineer: Patrick Rudolph
 Tool: MWD/MWD - Standard Tied-to: User Defined

Field: Eddy Co, NM (Nad 27)

Map System: US State Plane Coordinate System 1927 Map Zone: New Mexico, Eastern Zone
 Geo Datum: NAD27 (Clarke 1866) Coordinate System: Well Centre
 Sys Datum: Mean Sea Level Geomagnetic Model: IGRF2010

Site: Smokey Bits State Com 3H

Site Position: Northing: 619093.60 ft Latitude: 32 42 4.845 N
 From: Map Easting: 623304.00 ft Longitude: 103 55 56.971 W
 Position Uncertainty: 0.00 ft North Reference: Grid
 Ground Level: 3521.00 ft Grid Convergence: 0.22 deg

Well: 3H Slot Name:
 Well Position: +N/-S 0.00 ft Northing: 619093.60 ft Latitude: 32 42 4.845 N
 +E/-W 0.00 ft Easting: 623304.00 ft Longitude: 103 55 56.971 W
 Position Uncertainty: 0.00 ft

Wellpath: 1 Drilled From: Surface
 Current Datum: SITE Height 3546.00 ft Tie-on Depth: 0.00 ft
 Magnetic Data: 12/1/2011 Above System Datum: Mean Sea Level
 Field Strength: 48843 nT Declination: 7.73 deg
 Vertical Section: Depth From (TVD) +N/-S Mag Dip Angle: 60 55 deg
 ft ft +E/-W Direction
 ft deg
 0.00 0.00 0.00 83.36

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Comment
400.00	2.40	100.18	399.94	-0.04	4.93	4.89	0.00	0.00	0.00	Tie on SDI Gyro
542.00	2.93	107.17	541.79	-1.64	11.32	11.06	0.44	0.37	4.92	First Wft Svy
793.00	2.28	115.86	792.53	-5.71	21.95	21.14	0.30	-0.26	3.46	
855.00	1.94	116.01	854.49	-6.71	24.00	23.06	0.55	-0.55	0.24	
950.00	1.27	113.13	949.45	-7.83	26.41	25.33	0.71	-0.71	-3.03	
1235.00	0.60	83.89	1234.41	-8.91	30.80	29.56	0.28	-0.24	-10.26	
1518.00	0.39	10.65	1517.40	-7.81	32.45	31.33	0.22	-0.07	-25.88	
1803.00	0.20	17.80	1802.40	-6.38	32.78	31.83	0.07	-0.07	2.51	
2087.00	0.45	321.82	2086.39	-5.03	32.25	31.45	0.13	0.09	-19.71	
2371.00	0.46	327.40	2370.39	-3.19	30.94	30.36	0.02	0.00	1.96	
2655.00	0.15	285.78	2654.38	-2.13	29.97	29.52	0.13	-0.11	-14.65	
2939.00	0.27	262.00	2938.38	-2.13	28.95	28.51	0.05	0.04	-8.37	
3223.00	0.25	207.24	3222.38	-2.77	28.00	27.50	0.08	-0.01	-19.28	
3603.00	0.11	92.53	3602.38	-3.52	27.99	27.39	0.08	-0.04	-30.19	
3630.00	0.18	124.49	3629.38	-3.55	28.05	27.45	0.39	0.26	118.37	
3756.00	0.10	106.97	3755.38	-3.69	28.32	27.70	0.07	-0.06	-13.90	
3851.00	0.05	221.97	3850.38	-3.75	28.37	27.75	0.14	-0.05	121.05	
3946.00	0.30	132.84	3945.38	-3.95	28.52	27.88	0.32	0.26	-93.82	
4041.00	0.18	69.09	4040.37	-4.06	28.85	28.18	0.29	-0.13	-67.11	
4135.00	0.11	51.22	4134.37	-3.95	29.05	28.40	0.09	-0.07	-19.01	
4230.00	0.05	205.34	4229.37	-3.93	29.11	28.46	0.16	-0.06	162.23	
4324.00	0.05	283.85	4323.37	-3.96	29.05	28.40	0.07	0.00	83.52	
4419.00	0.25	135.44	4418.37	-4.10	29.15	28.49	0.31	0.21	-156.22	
4514.00	0.18	46.44	4513.37	-4.14	29.41	28.73	0.32	-0.07	-93.68	



Weatherford International Ltd.

WFT Survey Report



Weatherford

Company: Occidental Permian Ltd. Date: 1/23/2012 Time: 07:14:36 Page: 2
 Field: Eddy Co. NM (Nad 27) Co-ordinate(NE) Reference: Well, 3H, Grid North
 Site: Smokey Bits State Com 3H Vertical (TVD) Reference: SITE 3546.0
 Well: 3H Section (VS) Reference: Well, (0.00N, 0.00E, 83.36Azi)
 Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azimi deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Comment
4609.00	0.25	72.13	4608.37	-3.98	29.71	29.05	0.12	0.07	27.04	
4703.00	0.54	42.78	4702.37	-3.59	30.21	29.59	0.37	0.31	-31.22	
4798.00	0.65	35.09	4797.37	-2.82	30.82	30.29	0.14	0.12	-8.09	
4893.00	0.52	38.71	4892.36	-2.04	31.40	30.96	0.14	-0.14	3.81	
4988.00	0.96	43.59	4987.35	-1.13	32.22	31.87	0.47	0.46	5.14	
5083.00	0.92	51.76	5082.34	-0.08	33.37	33.14	0.15	-0.04	8.60	
5178.00	0.95	43.32	5177.33	0.96	34.51	34.39	0.15	0.03	-8.88	
5273.00	1.30	47.07	5272.31	2.27	35.84	35.86	0.38	0.37	3.95	
5367.00	0.47	45.11	5366.30	3.27	36.89	37.02	0.88	-0.88	-2.09	
5462.00	0.69	39.15	5461.29	3.99	37.53	37.74	0.24	0.23	-6.27	
5556.00	1.08	31.38	5555.28	5.18	38.35	38.69	0.43	0.41	-8.27	
5651.00	0.35	24.00	5650.27	6.21	38.93	39.39	0.77	-0.77	-7.77	
5745.00	0.25	245.69	5744.27	6.39	38.86	39.34	0.60	-0.11	-147.14	
5840.00	0.45	288.24	5839.27	6.42	38.32	38.80	0.33	0.21	44.79	
5935.00	0.69	292.88	5934.27	6.76	37.44	37.97	0.26	0.25	4.88	
6030.00	0.96	298.26	6029.26	7.36	36.21	36.82	0.30	0.28	5.66	
6125.00	0.79	282.51	6124.24	7.88	34.87	35.55	0.31	-0.18	-16.58	
6219.00	0.77	271.60	6218.24	8.04	33.60	34.31	0.16	-0.02	-11.61	
6314.00	0.69	325.83	6313.23	8.53	32.65	33.41	0.70	-0.08	57.08	
6409.00	0.46	328.77	6408.22	9.33	32.13	32.99	0.24	-0.24	3.09	
6504.00	0.69	309.23	6503.22	10.02	31.49	32.43	0.31	0.24	-20.57	
6599.00	0.36	318.11	6598.22	10.60	30.84	31.86	0.36	-0.35	9.35	
6696.00	0.66	88.69	6695.21	10.84	31.20	32.24	0.96	0.31	134.62	
6791.00	0.73	104.52	6790.21	10.70	32.33	33.35	0.21	0.07	16.66	
6884.00	0.58	99.88	6883.20	10.47	33.37	34.36	0.17	-0.16	-4.99	
6978.00	0.61	98.56	6977.20	10.31	34.33	35.29	0.04	0.03	-1.40	
7073.00	0.60	86.24	7072.19	10.27	35.33	36.28	0.14	-0.01	-12.97	
7167.00	0.43	88.19	7166.19	10.31	36.17	37.12	0.18	-0.18	2.07	
7261.00	0.33	85.08	7260.18	10.35	36.79	37.74	0.11	-0.11	-3.31	
7356.00	0.20	103.06	7355.18	10.34	37.23	38.17	0.16	-0.14	18.93	
7451.00	0.26	0.97	7450.18	10.51	37.39	38.36	0.38	0.06	-107.46	
7545.00	0.33	358.51	7544.18	11.00	37.39	38.41	0.08	0.07	-2.62	
7640.00	0.37	41.71	7639.18	11.50	37.59	38.66	0.27	0.04	45.47	
7734.00	0.37	3.79	7733.18	12.03	37.81	38.95	0.26	0.00	-40.34	
7748.00	0.47	10.79	7747.18	12.13	37.82	38.97	0.80	0.71	50.00	
7779.00	0.55	353.26	7778.18	12.40	37.83	39.01	0.56	0.26	-56.55	
7811.00	1.49	54.44	7810.17	12.80	38.15	39.37	4.11	2.94	191.19	
7843.00	3.95	68.85	7842.13	13.44	39.52	40.80	7.92	7.69	45.03	
7874.00	6.16	70.28	7873.01	14.38	42.08	43.46	7.14	7.13	4.61	
7906.00	8.07	71.04	7904.76	15.69	45.82	47.33	5.98	5.97	2.37	
7937.00	9.21	71.52	7935.41	17.19	50.23	51.88	3.68	3.68	1.55	
7968.00	9.90	77.54	7965.98	18.55	55.18	56.96	3.91	2.23	19.42	
8000.00	11.28	81.55	7997.44	19.60	60.97	62.82	4.89	4.31	12.53	
8031.00	13.52	81.63	8027.71	20.57	67.55	69.48	7.23	7.23	0.26	
8063.00	14.94	84.17	8058.73	21.54	75.36	77.34	4.85	4.44	7.94	
8094.00	17.06	84.86	8088.53	22.35	83.86	85.88	6.87	6.84	2.23	
8125.00	18.57	82.92	8118.04	23.37	93.29	95.37	5.23	4.87	-6.26	
8157.00	20.17	81.57	8148.23	24.80	103.80	105.98	5.19	5.00	-4.22	
8189.00	22.42	82.87	8178.04	26.37	115.32	117.59	7.18	7.03	4.06	
8220.00	25.34	84.55	8206.38	27.73	127.79	130.14	9.67	9.42	5.42	
8252.00	28.16	84.91	8234.96	29.06	142.13	144.54	8.83	8.81	1.12	
8283.00	30.37	85.51	8262.00	30.32	157.23	159.68	7.19	7.13	1.94	



Weatherford International Ltd.

WFT Survey Report



Weatherford

Company: Occidental Permian Ltd.
Field: Eddy Co, NM (Nad 27)
Site: Smokey Bits State Com 3H
Well: 3H
Wellpath: 1

Date: 1/23/2012 Time: 07:14:36 Page: 3
Co-ordinate(NE) Reference: Well: 3H, Grid North
Vertical (TVD) Reference: SITE 3546 0
Section (VS) Reference: Well (0.00N,0.00E,83.36Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Comment
8315.00	32.88	85.02	8289.24	31.71	173.95	176.45	7.88	7.84	-1.53	
8347.00	35.14	84.22	8315.77	33.39	191.77	194.35	7.20	7.06	-2.50	
8378.00	36.92	83.92	8340.84	35.27	209.91	212.58	5.77	5.74	-0.97	
8410.00	38.96	83.77	8366.07	37.38	229.47	232.25	6.38	6.37	-0.47	
8441.00	41.69	83.76	8389.70	39.56	249.41	252.31	8.81	8.81	-0.03	
8472.00	44.83	84.00	8412.28	41.82	270.53	273.55	10.14	10.13	0.77	
8504.00	47.69	83.45	8434.40	44.35	293.51	296.67	9.02	8.94	-1.72	
8536.00	49.49	83.31	8455.56	47.12	317.35	320.67	5.63	5.62	-0.44	
8567.00	52.12	83.21	8475.15	49.94	341.20	344.69	8.49	8.48	-0.32	
8598.00	54.86	83.28	8493.60	52.87	365.94	369.60	8.84	8.84	0.23	
8630.00	57.64	83.74	8511.37	55.88	392.38	396.21	8.77	8.69	1.44	
8661.00	59.20	84.38	8527.61	58.61	418.64	422.61	5.33	5.03	2.06	
8693.00	61.85	84.54	8543.35	61.30	446.37	450.46	8.29	8.28	0.50	
8725.00	64.86	84.61	8557.70	64.00	474.84	479.06	9.41	9.41	0.22	
8756.00	67.73	84.21	8570.16	66.77	503.09	507.43	9.33	9.26	-1.29	
8787.00	68.79	84.22	8581.64	69.67	531.73	536.22	3.42	3.42	0.03	
8818.00	70.00	85.15	8592.55	72.35	560.63	565.23	4.81	3.90	3.00	
8850.00	73.43	85.28	8602.59	74.89	590.90	595.60	10.73	10.72	0.41	
8881.00	77.40	84.81	8610.40	77.48	620.78	625.58	12.89	12.81	-1.52	
8913.00	80.90	83.78	8616.42	80.61	652.05	657.00	11.39	10.94	-3.22	
8944.00	83.73	83.05	8620.56	84.13	682.56	687.71	9.42	9.13	-2.35	
8976.00	84.47	82.67	8623.85	88.09	714.15	719.54	2.60	2.31	-1.19	
9008.00	85.28	82.28	8626.71	92.26	745.75	751.41	2.81	2.53	-1.22	
9039.00	87.74	82.26	8628.60	96.42	776.40	782.35	7.94	7.94	-0.06	
9071.00	88.83	82.37	8629.56	100.70	808.10	814.33	3.42	3.41	0.34	
9103.00	90.71	82.33	8629.69	104.96	839.82	846.32	5.88	5.87	-0.12	
9134.00	91.34	83.11	8629.13	108.89	870.56	877.31	3.23	2.03	2.52	
9229.00	89.86	84.39	8628.14	119.23	964.99	972.30	2.06	-1.56	1.35	
9324.00	89.23	84.87	8628.89	128.12	1059.57	1067.27	0.83	-0.66	0.51	
9418.00	88.26	84.77	8630.95	136.60	1153.16	1161.22	1.04	-1.03	-0.11	
9513.00	87.84	84.96	8634.18	145.10	1247.72	1256.13	0.49	-0.44	0.20	
9608.00	88.20	84.36	8637.46	153.94	1342.25	1351.05	0.74	0.38	-0.63	
9703.00	88.43	84.78	8640.26	162.92	1436.78	1445.99	0.50	0.24	0.44	
9798.00	88.43	84.64	8642.86	171.68	1531.34	1540.92	0.15	0.00	-0.15	
9893.00	88.54	83.38	8645.37	181.59	1625.79	1635.88	1.33	0.12	-1.33	
9987.00	88.08	82.52	8648.14	193.12	1719.04	1729.84	1.04	-0.49	-0.91	
10082.00	88.08	82.69	8651.33	205.34	1813.20	1824.78	0.18	0.00	0.18	
10177.00	87.86	82.75	8654.69	217.37	1907.37	1919.71	0.24	-0.23	0.06	
10272.00	88.03	83.78	8658.10	228.50	2001.65	2014.65	1.10	0.18	1.08	
10367.00	88.31	82.55	8661.13	239.80	2095.93	2109.60	1.33	0.29	-1.29	
10461.00	88.49	81.47	8663.76	252.86	2188.98	2203.53	1.16	0.19	-1.15	
10556.00	87.91	82.29	8666.74	266.28	2282.98	2298.45	1.06	-0.61	0.86	
10651.00	87.80	82.37	8670.30	278.95	2377.06	2393.37	0.14	-0.12	0.08	
10746.00	87.80	82.53	8673.94	291.42	2471.17	2488.29	0.17	0.00	0.17	
10841.00	88.20	83.24	8677.26	303.18	2565.38	2583.23	0.86	0.42	0.75	
10905.00	88.03	83.16	8679.36	310.75	2628.89	2647.19	0.29	-0.27	-0.12	
11000.00	89.17	84.19	8681.69	321.22	2723.28	2742.16	1.62	1.20	1.08	
11095.00	89.34	84.54	8682.92	330.54	2817.82	2837.14	0.41	0.18	0.37	
11190.00	88.77	84.04	8684.49	339.99	2912.33	2932.11	0.80	-0.60	-0.53	
11285.00	88.26	83.94	8686.95	349.94	3006.78	3027.07	0.55	-0.54	-0.11	
11379.00	87.86	83.96	8690.13	359.84	3100.20	3121.01	0.43	-0.43	0.02	
11474.00	87.57	83.67	8693.92	370.07	3194.57	3215.94	0.43	-0.31	-0.31	
11569.00	88.37	83.23	8697.28	380.90	3288.89	3310.87	0.96	0.84	-0.46	



Weatherford International Ltd.

WFT Survey Report

**Weatherford**

Company:	Occidental Permian Ltd.	Date:	1/23/2012	Time:	07:14:36	Page:	4
Field:	Eddy Co. NM. (Nad 27)	Co-ordinate(NE) Reference:	Well: 3H Grid North				
Site:	Smokey Bits State Com 3H	Vertical (TVD) Reference:	SITE 3546.0				
Well:	3H	Section (VS) Reference:	Well (0.00N,0.00E,83.36Azi)				
Wellpath:	1	Survey Calculation Method:	Minimum Curvature			Db:	Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Comment
11664.00	89.29	83.79	8699.22	391.63	3383.26	3405.85	1.13	0.97	0.59	
11758.00	89.63	84.05	8700.11	401.59	3476.73	3499.84	0.46	0.36	0.28	
11853.00	89.91	84.35	8700.49	411.19	3571.24	3594.83	0.43	0.29	0.32	
11948.00	89.86	83.62	8700.68	421.14	3665.72	3689.83	0.77	-0.05	-0.77	
12042.00	90.31	83.31	8700.54	431.84	3759.11	3783.83	0.58	0.48	-0.33	
12136.00	89.17	83.17	8700.97	442.90	3852.45	3877.82	1.22	-1.21	-0.15	
12231.00	87.97	83.33	8703.34	454.07	3946.76	3972.79	1.27	-1.26	0.17	
12326.00	87.91	83.37	8706.76	465.06	4041.06	4067.73	0.08	-0.06	0.04	
12420.00	88.31	83.54	8709.86	475.77	4134.40	4161.68	0.46	0.43	0.18	
12515.00	87.80	83.27	8713.08	486.67	4228.71	4256.62	0.61	-0.54	-0.28	
12610.00	87.68	83.32	8716.83	497.76	4322.99	4351.55	0.14	-0.13	0.05	
12704.00	87.57	83.13	8720.72	508.84	4416.25	4445.47	0.23	-0.12	-0.20	
12798.00	87.17	83.01	8725.03	520.17	4509.47	4539.37	0.44	-0.43	-0.13	
12841.00	87.11	83.22	8727.18	525.31	4552.11	4582.31	0.51	-0.14	0.49	Last Wft Svy
12906.00	87.11	83.22	8730.46	532.98	4616.57	4647.23	0.00	0.00	0.00	Proj. to Bit

Annotation

MD ft	TVD ft	
400.00	399.94	Tie on SDI Gyro
542.00	541.79	First Wft Svy
12841.00	8727.18	Last Wft Svy
12906.00	8730.46	Proj. to Bit